Montana Board of Oil and Gas Conservation Environmental Assessment

Well Name/Number: Brown 15-12 Location: SW SE Section 12 T37N R3E County: Liberty, MT; Field (or Wildcat) Whitlash Field—SW Sunburst/Swift Unit Air Quality (possible concerns) Long drilling time: No, 5 to 6 days drilling time. Unusually deep drilling (high horsepower rig): No, 3000' TD vertical well. Possible H2S gas production: No, Rierdon Formation test, no H2S anticipated. In/near Class I air quality area: No. Class I air quality in the area of review. Air quality permit for flaring/venting (if productive): Yes, DEQ air quality permit required under 75-2-211. Mitigation: X Air quality permit (AQB review) __ Gas plants/pipelines available for sour gas Special equipment/procedures requirements Other: Comments: No special concerns – using small rig to drill 3000' TD vertical well. **Water Quality** (possible concerns) Salt/oil based mud: No, freshwater, freshwater mud system High water table: No high water table anticipated in the area of review. Surface drainage leads to live water: No, nearest drainages are an unnamed ephemeral tributary to Breed Creek, about 1/8 of a mile to the north and 1/8 mile to the west. Water well contamination: No, closest deep water well is about 3/4 of a mile to the northwest and several shallow wells to the south. Water wells are sufficiently distant to not be contaminated. Also, this well will have surface hole drilled to 350' with freshwater and steel surface casing cemented to surface from 350'. Porous/permeable soils: No, sandy bentonitic soils. Class I stream drainage: No Mitigation: Lined reserve pit X Adequate surface casing ___ Berms/dykes, re-routed drainage Closed mud system

Soils/Vegetation/Land Use

Comments: 350' of surface casing cemented to surface adequate to protect

(possible concerns)

_ Other:

Operator: MRC LLC

Steam crossings: No, stream crossings, will be crossing only ephemeral drainages. High erosion potential: No, small cut, less than a foot and small fill, up to 3.6', required.

___ Off-site disposal of solids/liquids (in approved facility)

freshwater zones. Also, fresh water mud systems to be used.

Loss of soil productivity: No, location will be restored after drilling, if nonproductive. If productive unused portion of drillsite will be reclaimed.
Unusually large wellsite: No, 200'X200' location size required.
Damage to improvements: Slight, surface use is grassland.
Conflict with existing land use/values: Slight
Mitigation —————
Avoid improvements (topographic tolerance)
Exception location requested
X Stockpile topsoil
Stream Crossing Permit (other agency review)
X Reclaim unused part of wellsite if productive
Special construction methods to enhance reclamation Other
Comments: Access will utilize existing county road, Strawberry Road. About 1/8 of a
mile of new access road will be built into this location. Cuttings will be buried in the
reserve pit. Fluids will be allowed to evaporate and then the pit will be backfilled. No
special concerns.
Health Hazards/Noise
(possible concerns)
Proximity to public facilities/residences: No residences in immediate area, which is in an
existing oilfiled.
Possibility of H2S: None anticipated.
Size of rig/length of drilling time: Small drilling rig/short 5 to 6 days drilling time.
Mitigation:
X Proper BOP equipmentTopographic sound barriers
H2S contingency and/or evacuation plan
Special equipment/procedures requirements
Other:
Comments: Annular Preventer, 3,000 psig working pressure. Rule 36.22.1014.
No concerns
Wildlife/recreation
(possible concerns)
Proximity to sensitive wildlife areas (DFWP identified): None identified.
Proximity to recreation sites: None identified.
Creation of new access to wildlife habitat: No
Conflict with game range/refuge management: No
Threatened or endangered Species: Only species listed as threatened or endangered
is the Black-Footed Ferret. Species listed as candidate species are the Greater Sage
Grouse and the Sprague's Pipit. NH Tracker website lists the following species of concern (4) Sprague's Pipit, Chestnut Collared Longspur, Long-bill Curlew and the
McCown's Longspur,
Mitigation:
Avoidance (topographic tolerance/exception)
Other agency review (DFWP, federal agencies, DSL)Screening/fencing of pits, drillsite
Other:

Comments: Surface use is a private grassland. There maybe species of concern that maybe impacted by this wellsite. We ask the operator to consult with the surface owner as to what he would like done, if a species of concern is discovered at this location. The Board of Oil & Gas has no jurisdiction over private surface lands.

Historical/Cultural/Paleontological
(possible concerns)
Proximity to known sites: None identified
Mitigation
avoidance (topographic tolerance, location exception)
other agency review (SHPO, DSL, federal agencies)
Other: Comments: <u>Surface use is a private grassland. There maybe possible</u>
historical/cultural/paleontological sites that maybe impacted by this wellsite. We ask the
operator to consult with the surface owner as to his desires to preserve these sites or
not, if they are found during construction of the wellsite. The Board of Oil & Gas has no
jurisdiction over private surface lands.
Social/Economic
(possible concerns)
Substantial effect on tax base
Create demand for new governmental servicesPopulation increase or relocation
Comments: Well is a development well in the SW Whitlash Sunburst/Swift Sand
Unit. No concerns.
Remarks or Special Concerns for this site
Wall is 2000? TD. Disyden Formation vertical well test
Well is 3000' TD, Rierdon Formation vertical well test.
Summary: Evaluation of Impacts and Cumulative effects
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No long term impacts expected. Some short term impacts will occur.
I conclude that the approval of the subject Notice of Intent to Drill (does/does not)
constitute a major action of state government significantly affecting the quality of the
human environment, and (does/ does not) require the preparation of an environmental
impact statement.
Francisco C. C.
Prepared by (BOGC): Thomas Richmond
(title:) Administrator
Date: <u>August 23, 2013</u>

Montana Bureau of Mines and Geology, GWIC website
(Name and Agency)
Liberty County water wells
(subject discussed)
8-23-13
(date)

Montana Natural Heritage Program Website (FWP) (Name and Agency)
Heritage State Rank= S1, S2, S3, T37N R4E (subject discussed)

Aug 23, 2013 (date)

If location was inspected before permit approval:	
Inspection date:	
Inspector:	
Others present during inspection:	